RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/692,299_

Source:

Date Processed by STIC:

ENTERED

IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/692,299**

DATE: 12/03/2004
TIME: 08:10:53

Input Set : **N:\Crf3\RULE60\10692299.raw.txt**
Output Set: **N:\CRF4\12032004\J692299.raw**

```
 1 <110> APPLICANT: Ferrara, Napoleone
 2         Watanabe, Colin
 3         Wood, William I.
 4 <120> TITLE OF INVENTION: EG-VEGF NUCLEIC ACIDS AND POLYPEPTIDES
 5         AND METHODS OF USE
 6 <130> FILE REFERENCE: GENENT.1516A
 7 <140> CURRENT APPLICATION NUMBER: US/10/692,299
 8 <141> CURRENT FILING DATE: 2003-10-22
 9 <150> PRIOR APPLICATION NUMBER: US/09/886,242
10 <151> PRIOR FILING DATE: 2001-06-20
11 <150> PRIOR APPLICATION NUMBER: US 60/230,978
12 <151> PRIOR FILING DATE: 2000-09-07
13 <150> PRIOR APPLICATION NUMBER: US 60/213,637
14 <151> PRIOR FILING DATE: 2000-06-23
15 <150> PRIOR APPLICATION NUMBER: US 60/145,698
16 <151> PRIOR FILING DATE: 1999-07-26
17 <150> PRIOR APPLICATION NUMBER: US 60/096,146
18 <151> PRIOR FILING DATE: 1998-08-11
19 <150> PRIOR APPLICATION NUMBER: PCT/US00/32678
20 <151> PRIOR FILING DATE: 2000-12-01
21 <150> PRIOR APPLICATION NUMBER: PCT/US00/08439
22 <151> PRIOR FILING DATE: 2000-03-30
23 <150> PRIOR APPLICATION NUMBER: PCT/US00/04914
24 <151> PRIOR FILING DATE: 2000-02-24
25 <150> PRIOR APPLICATION NUMBER: PCT/US00/00219
26 <151> PRIOR FILING DATE: 2000-01-05
27 <150> PRIOR APPLICATION NUMBER: PCT/US99/12252
28 <151> PRIOR FILING DATE: 1999-06-02
29 <150> PRIOR APPLICATION NUMBER: US 09/709,238
30 <151> PRIOR FILING DATE: 2000-11-08
31 <150> PRIOR APPLICATION NUMBER: US 09/380,137
32 <151> PRIOR FILING DATE: 1999-08-25
33 <160> NUMBER OF SEQ ID NOS: 18
34 <170> SOFTWARE: FastSEQ for Windows Version 4.0
36 <210> SEQ ID NO: 1
37 <211> LENGTH: 1415
38 <212> TYPE: DNA
39 <213> ORGANISM: Homo sapiens
40 <220> FEATURE:
41 <400> SEQUENCE: 1
42      tggcctcccc agcttgccag gcacaaggct gagcgggagg aagcgagagg catctaagca 60
43      ggcagtgttt tgccttcacc ccaagtgacc atgagaggtg ccacgcgagt ctcaatcatg 120
44      ctcctcctag taactgtgtc tgactgtgct gtgatcacag gggcctgtga gcgggatgtc 180
```

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```
45      cagtgtgggg caggcacctg ctgtgccatc agcctgtggc ttcgagggct gcggatgtgc 240
46      accccgctgg ggcgggaagg cgaggagtgc caccccggca gccacaaggt ccccttcttc 300
47      aggaaacgca agcaccacac ctgtccttgc ttgcccaacc tgctgtgctc caggttcccg 360
48      gacggcaggt accgctgctc catggacttg aagaacatca attttttaggc gcttgcctgg 420
49      tctcaggata cccaccatcc ttttcctgag cacagcctgg attttttattt ctgccatgaa 480
50      acccagctcc catgactctc ccagtcccta cactgactac cctgatctct cttgtctagt 540
51      acgcacatat gcacacaggc agacatacct cccatcatga catggtcccc aggctggcct 600
52      gaggatgtca cagcttgagg ctgtggtgtg aaaggtggcc agcctggttc tcttccctgc 660
53      tcaggctgcc agagaggtgg taaatggcag aaaggacatt ccccctcccc tcccaggtg 720
54      acctgctctc tttcctgggc cctgcccctc tccccacatg tatccctcgg tctgaattag 780
55      acattcctgg gcacaggctc ttgggtgcat tgctcagagt cccaggtcct ggcctgaccc 840
56      tcaggccctt cacgtgaggt ctgtgaggac caatttgtgg gtagttcatc ttccctcgat 900
57      tggttaactc cttagtttca gaccacagac tcaagattgg ctcttcccag agggcagcag 960
58      acagtcaccc caaggcaggt gtagggagcc cagggaggcc aatcagcccc ctgaagactc 1020
59      tggtcccagt cagcctgtgg cttgtggcct gtgacctgtg accttctgcc agaattgtca 1080
60      tgcctctgag gccccctctt accacacttt accagttaac cactgaagcc cccaattccc 1140
61      acagcttttc cattaaaatg caaatggtgg tggttcaatc taatctgata ttgacatatt 1200
62      agaaggcaat tagggtgttt ccttaaacaa ctcctttcca aggatcagcc ctgagagcag 1260
63      gttggtgact ttgaggaggg cagtcctctg tccagattgg ggtgggagca agggacaggg 1320
64      agcagggcag gggctgaaag gggcactgat tcagaccagg gaggcaacta cacaccaaca 1380
65      tgctggcttt agaataaaag caccaactga aaaaa                               1415
67 <210> SEQ ID NO: 2
68 <211> LENGTH: 105
69 <212> TYPE: PRT
70 <213> ORGANISM: Homo sapiens
71 <220> FEATURE:
72 <400> SEQUENCE: 2
73      Met Arg Gly Ala Thr Arg Val Ser Ile Met Leu Leu Leu Val Thr Val
74       1               5                  10                  15
75      Ser Asp Cys Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Val Gln Cys
76                  20                  25                  30
77      Gly Ala Gly Thr Cys Cys Ala Ile Ser Leu Trp Leu Arg Gly Leu Arg
78                  35                  40                  45
79      Met Cys Thr Pro Leu Gly Arg Glu Gly Glu Glu Cys His Pro Gly Ser
80              50                  55                  60
81      His Lys Val Pro Phe Phe Arg Lys Arg Lys His His Thr Cys Pro Cys
82      65                  70                  75                  80
83      Leu Pro Asn Leu Leu Cys Ser Arg Phe Pro Asp Gly Arg Tyr Arg Cys
84                      85                  90                  95
85      Ser Met Asp Leu Lys Asn Ile Asn Phe
86                     100                 105
88 <210> SEQ ID NO: 3
89 <211> LENGTH: 374
90 <212> TYPE: DNA
91 <213> ORGANISM: Homo sapiens
92 <220> FEATURE:
93 <221> NAME/KEY: unsure
94 <222> LOCATION: (0)...(0)
95 <223> OTHER INFORMATION: n = A, T, C or G
```

RAW SEQUENCE LISTING   DATE: 12/03/2004
PATENT APPLICATION: US/10/692,299   TIME: 08:10:53

Input Set : N:\Crf3\RULE60\10692299.raw.txt
Output Set: N:\CRF4\12032004\J692299.raw

```
 96 <400> SEQUENCE: 3
W--> 97      tggctcccca gcttgccagg cacaaggctg agctggagga agcgagangc atctaagcag 60
 98          gcagtgtttt gccttcaccc caagtgacca tgagaggtgc cacgcgagtc tcaatcatgc 120
 99          tcctcctagt aactgtgtct gactgtgctg tgatcacagg ggcctgtgag cgggatgtcc 180
100           agtgtggggc aggcacctgc tgtgccatca gcctgtggct tcgagggctg cggatgtgca 240
101          ccccgctggg gcgggaaggc gaggagtgcc accccggcag ccacaaggtc cccttcttca 300
102          ggaaacgcaa gcaccacacc tgtcttgttg cccaacctgc tgtgctccag ttccggacgg 360
103          cagtacgctg ctca                                                   374
105 <210> SEQ ID NO: 4
106 <211> LENGTH: 100
107 <212> TYPE: PRT
108 <213> ORGANISM: Homo sapiens
109 <400> SEQUENCE: 4
110      Met Leu Leu Leu Leu Leu Leu Leu Pro Pro Leu Leu Leu Pro Arg Ala
111       1               5                  10                  15
112      Gly Asp Ala Ala Val Ile Thr Gly Ala Cys Asp Lys Asp Ser Gln Cys
113                  20                  25                  30
114      Gly Gly Gly Met Cys Cys Ala Val Ser Ile Trp Val Lys Ser Ile Arg
115                  35                  40                  45
116      Ile Cys Thr Pro Met Gly Lys Leu Gly Asp Ser Cys His Pro Leu Thr
117           50                  55                  60
118      Arg Lys Val Pro Phe Phe Gly Arg Arg Met His His Thr Cys Pro Cys
119      65                  70                  75                  80
120      Leu Pro Gly Leu Ala Cys Leu Arg Thr Ser Phe Asn Arg Phe Ile Cys
121                  85                  90                  95
122      Leu Ala Gln Lys
123              100
125 <210> SEQ ID NO: 5
126 <211> LENGTH: 79
127 <212> TYPE: PRT
128 <213> ORGANISM: Snake
129 <400> SEQUENCE: 5
130      Ala Val Ile Thr Gly Ala Cys Glu Arg Asp Leu Gln Cys Gly Lys Gly
131       1               5                  10                  15
132      Thr Cys Cys Ala Val Ser Leu Trp Ile Lys Ser Val Arg Val Cys Thr
133                  20                  25                  30
134      Pro Val Gly Thr Ser Gly Glu Asp Cys His Pro Ala Ser His Lys Ile
135                  35                  40                  45
136      Pro Phe Ser Gly Gln Arg Met His His Thr Cys Pro Cys Ala Pro Asn
137           50                  55                  60
138      Leu Ala Cys Val Gly Thr Pro Lys Lys Phe Lys Cys Leu Ser Lys
139      65                  70                  75
141 <210> SEQ ID NO: 6
142 <211> LENGTH: 83
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
145 <400> SEQUENCE: 6
146      Cys Asp Asn Gln Arg Asp Cys Gln Pro Gly Leu Cys Cys Ala Phe Gln
147       1               5                  10                  15
```

```
148        Arg Gly Leu Leu Phe Pro Val Cys Thr Pro Leu Pro Val Glu Gly Glu
149                    20              25              30
150        Leu Cys His Asp Pro Ala Ser Arg Leu Leu Asp Leu Ile Thr Trp Glu
151                35              40              45
152        Leu Glu Pro Asp Gly Ala Leu Asp Arg Cys Pro Cys Ala Ser Gly Leu
153            50              55              60
154        Leu Cys Gln Pro His Ser His Ser Leu Val Tyr Val Cys Lys Pro Thr
155        65              70              75              80
156        Phe Val Gly
158 <210> SEQ ID NO: 7
159 <211> LENGTH: 79
160 <212> TYPE: PRT
161 <213> ORGANISM: Xenopus
162 <400> SEQUENCE: 7
163        Cys Leu Arg Ser Thr Asp Cys Ala Pro Gly Leu Cys Cys Ala Arg His
164          1           5              10              15
165        Phe Trp Ser Lys Ile Cys Lys Pro Val Leu Asp Glu Gly Gln Val Cys
166                20              25              30
167        Thr Lys His Arg Arg Lys Gly Ser His Gly Leu Glu Ile Phe Gln Arg
168                35              40              45
169        Cys His Cys Gly Ala Gly Leu Ser Cys Arg Leu Gln Lys Gly Glu Phe
170            50              55              60
171        Thr Thr Val Pro Lys Thr Ser Arg Leu His Thr Cys Gln Arg His
172        65              70              75
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 79
176 <212> TYPE: PRT
177 <213> ORGANISM: Porcine
178 <400> SEQUENCE: 8
179        Cys Leu Asn Ser Ala Gln Cys Lys Ser Asn Cys Cys Gln His Asp Thr
180          1           5              10              15
181        Ile Leu Ser Leu Ser Arg Cys Ala Leu Lys Ala Arg Glu Asn Ser Glu
182                20              25              30
183        Cys Ser Ala Phe Thr Leu Tyr Gly Val Tyr Tyr Lys Cys Pro Cys Glu
184                35              40              45
185        Arg Gly Leu Thr Cys Glu Gly Asp Lys Ser Leu Val Gly Ser Ile Thr
186            50              55              60
187        Asn Thr Asn Phe Gly Ile Cys His Asp Val Gly Arg Ser Ser Asp
188        65              70              75
190 <210> SEQ ID NO: 9
191 <211> LENGTH: 17
192 <212> TYPE: DNA
193 <213> ORGANISM: Artificial Sequence
194 <220> FEATURE:
195 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
196 <400> SEQUENCE: 9
197        ccggcagcca caaggtc                                           17
199 <210> SEQ ID NO: 10
200 <211> LENGTH: 18
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Output Set: N:\CRF4\12032004\J692299.raw

```
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
205 <400> SEQUENCE: 10
206      tgggcaagca aggacagg                                              18
208 <210> SEQ ID NO: 11
209 <211> LENGTH: 26
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
212 <220> FEATURE:
213 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
214 <400> SEQUENCE: 11
215      ccttcttcag gaaacgcaag caccac                                     26
217 <210> SEQ ID NO: 12
218 <211> LENGTH: 19
219 <212> TYPE: DNA
220 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
223 <400> SEQUENCE: 12
224      aatgacgagg gcctggagt                                             19
226 <210> SEQ ID NO: 13
227 <211> LENGTH: 21
228 <212> TYPE: DNA
229 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
232 <400> SEQUENCE: 13
233      ttgatccgca taatctgcat g                                         21
235 <210> SEQ ID NO: 14
236 <211> LENGTH: 26
237 <212> TYPE: DNA
238 <213> ORGANISM: Artificial Sequence
239 <220> FEATURE:
240 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
241 <400> SEQUENCE: 14
242      tgtgcccact gaggagtcca acatca                                     26
244 <210> SEQ ID NO: 15
245 <211> LENGTH: 35
246 <212> TYPE: DNA
247 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: Artificial Sequence = synthetic oligonucleotide
250 <400> SEQUENCE: 15
251      aggccctacg tgcggcctca cacagcctgt tctga                           35
253 <210> SEQ ID NO: 16
254 <211> LENGTH: 35
255 <212> TYPE: DNA
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/03/2004
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<u>**Please Note:**</u>
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 48

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/692,299**

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Input Set : **N:\Crf3\RULE60\10692299.raw.txt**
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L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0